Notice of Allowability	Application No.	Applicant(s)	
	10/617,494	CLIFT, GRAHAM	
	Examiner	Art Unit	
	Chat C. Do	2193	•
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate common GHTS. This application is so	n this application. If not included unication will be mailed in due course. THIS	ve
1. This communication is responsive to <u>10/22/2006</u> .			
2. X The allowed claim(s) is/are <u>1-4, 6-12, 14-16, 18-20, 22-23,</u>	now renumber as 1-19.		
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application cuments have been receive	on No d in this national stage application from the	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the property of of the	con's Patent Drawing Review s Amendment / Comment on 84(c)) should be written on t	in the Office action of he drawings in the front (not the back) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of In	formal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🛛 Interview S	ummary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08),		/Mail Date <u>attached hereto</u> Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☐ Examiner's 9. ☐ Other	Statement of Reasons for Allowance	
		MENG-AL T. AN SUPERVISORY PATENT EXAMINED ONE OF CENTER 2100	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. John L. Rogitz on 12/18/2006.

The application has been amended claims 1 and 16 as follows:

1. (Currently amended) A data bit counter having a width "w", comprising:

at least w counter stages, each stage receiving at least one carry bit, and at least one count bit, each stage executing logic on the count bit and carry bit to output at least one count bit and at least one carry bit to a next highest stage, the count bits output by the stages together representing a Gray counter count value, wherein, an nth count bit has a value of gcount(n)' after an active clock edge associated with the counter, and the logic includes determining gcount(n)' using an XOR of a current count bit and (an output of AND of a previous count bit and a previous carry bit).

16. (Currently amended) A logic device executing method acts for counting a number of bits processed, the method acts comprising:

generating a carry bit chain useful for determining which, if any, higher order bits should change in a next clock cycle;

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generating a count bit chain, the chains being dependent on each other; and using the count bit chain to indicate a count of a number of bits, the device including a Gray code counter using the chains, wherein the counter has a width "w" and includes at least w counter, each stage receiving at least one carry bit, and at least one count bit, each stage executing logic on the count bit and carry bit to output at least one count bit and at least one carry bit to a next highest stage, the count bits output by the stages together representing a Gray counter count value further wherein an nth count bit has a value of gcount(n)' after an active clock edge associated with the counter, and the logic includes determining gcount(n)' using an XOR of a current count bit and (an output of AND of a previous count bit and a previous carry bit).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The examiner can normally be reached on 7:00AM to 5:00PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chat C Do Examiner Art Unit 2193

December 18, 2006

MENG-AL T. AN SUPERVISORY PATENT EXAMINER

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